WHAT IS CLAIMED IS:

1. A recording medium having a data structure for managing reproduction of at least multiple reproduction path video data recorded on the recording medium, comprising:

a data area storing clip files of at least a video data stream, each clip file associated with one of a common reproduction path portion and a particular reproduction path portion of the video data stream.

- 2. The recording medium of claim 1, wherein the clip files are interleaved.
- 3. The recording medium of claim 2, wherein the clip files associated with particular reproduction path portions are interleaved between the clip files associated with common reproduction path portions.
- 4. The recording medium of claim 2, wherein the clip files have a size to prevent a reproducing apparatus buffer from under-flowing during reproduction of the clip files.
- 5. The recording medium of claim 4, wherein the clip files have a size to prevent the reproducing apparatus buffer from over-flowing during reproduction of the clip files.
- 6. The recording medium of claim 5, wherein more than one clip file is

associated with a same one of a common reproduction path portion and a particular reproduction path portion when the one of the common reproduction path portion and the particular reproduction path portion includes data exceeding a clip file size to prevent the reproducing apparatus buffer from over-flowing during reproduction of the clip files.

- 7. The recording medium of claim 2, wherein the clip files have a size to prevent the reproducing apparatus buffer from over-flowing during reproduction of the clip files.
- 8. The recording medium of claim 7, wherein more than one clip file is associated with a same one of a common reproduction path portion and a particular reproduction path portion when the one of the common reproduction path portion and the particular reproduction path portion includes data exceeding a clip file size to prevent the reproducing apparatus buffer from over-flowing during reproduction of the clip files.
- 9. The recording medium of claim 1, wherein the clip files have a size to prevent a reproducing apparatus buffer from under-flowing during reproduction of the clip files.
- 10. The recording medium of claim 1, wherein the clip files have a size to prevent the reproducing apparatus buffer from over-flowing during

reproduction of the clip files.

11. The recording medium of claim 10, wherein more than one clip file is associated with a same one of a common reproduction path portion and a particular reproduction path portion when the one of the common reproduction path portion and the particular reproduction path portion includes data exceeding a clip file size to prevent the reproducing apparatus buffer from over-flowing during reproduction of the clip files.

12. A method of recording a data structure for managing reproduction of at least multiple reproduction path video data on a recording medium, comprising:

recording clip files of at least a video data stream in a data area of the recording medium, each clip file associated with one of a common reproduction path portion and a particular reproduction path portion of the video data stream.

13. A method of reproducing a data structure for managing reproduction of at least multiple reproduction path video data recorded on a recording medium, comprising:

reproducing clip files of at least a video data stream from the recording medium, each clip file associated with one of a common reproduction path portion and a particular reproduction path portion of the video data stream.

14. An apparatus for recording a data structure for managing reproduction of at least multiple reproduction path video data on a recording medium, comprising:

a driver for driving an optical recording device to record data on the recording medium;

an encoder for encoding at least multiple reproduction path video data; and

a controller for controlling the driver to record clip files of at least a video data stream output from the encoder in a data area of the recording medium, each clip file associated with one of a common reproduction path portion and a particular reproduction path portion of the video data stream.

15. An apparatus for reproducing a data structure for managing reproduction of at least multiple reproduction path video data recorded on a recording medium, comprising:

a driver for driving an optical reproducing device to reproduce data recorded on the recording medium;

a controller for controlling the driver to reproduce clip files of at least a video data stream from the recording medium, each clip file associated with one of a common reproduction path portion and a particular reproduction path portion of the video data stream.